

Material Test Report

Heat Code: WYW

An Ameri-Forge Group Company 13770 Industrial Rd., Houston, TX 77015

ISO 9001:2000 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

Qty Shipped: 125

PLESA ANAHUAC Y CIAS

PO: 3050

Sales Order: 60057

Line: 12

SA DE CV AV. VALLE DE LAS

Item Code: 0151400101-0020F

NHT COFFR

ALAMEDAS 66-0 54940 TULTITLAN, EDO MEX Item Desc: FLG 04.00 0150 WN RF STD A105 Supplier: SMI

Supplier Heat: 252673

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04, Melt Practice EF

Element	(%wt)	Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C Carbo	n	0.21				Cr Chron	nium	0.12		✓ 7	440-47-3
Mn Manga	inese	0.91		\checkmark	7439-96-5	Mo Molyk	odenum	0.021			
P Phosp	horous	0.014				V Vanad	lium	0.002			
S Sulph	ur	0.012				Cb Colum	nbium	0.002			
Si Silio	on	0.19				C.E.		0.418270			
Cu Coppe	er	0.33		\checkmark	7440-50-8	CuNiCrMo		0.56			
Ni Nicke	1	0.09		✓	7440-02-0	CrMo		0.14			
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Mechanic	al	Other				
Test Lab	AFG	Country of Origin	USA (US)			
Test Bar Size	SACRIFICIAL PIECE	EF	Y			
HBW	163-167					
Elg (%)	31.0					
RA (%)	52.0					
Tensile Specimen Size (in)	0.247					
Tensile (ksi)	83.1					
Yield (ksi)	48.7					
Gauge Length	1.00					

Product compliant with NACE MR0175, latest edition.

Product compliant with and meets all requirements of ASTM A105/ASME SA105-05.

No Weld repair performed. Chemical Analysis results shown are actual. Forgings are capable of passing hydrostatic test compatible with the appropriate rating. Elongation taken from a round specimen. All material supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment was used in manufacturing, fabrication or testing. Yield strength was determined using the 0.2% offset method.

EPCRA Supplier Notification: This product may contain one or more toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chemicals are indicated with a checkmark in the "EPCRA" column and a Chemical Abstract Services (CAS) registry number is provided for each such chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

119678

Certification Date: 6/14/2007

Kevin Papich - Tech. Svcs. Manager